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(54) HAND HELD ERGONOMIC COMPUTER CONTROLLER

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(56) References Cited

U.S. PATENT DOCUMENTS

5,615,083 *	3/1997	Burnett 361/686
5,648,798 *	7/1997	Hamling 345/163
5,726,684 *	3/1998	Blankenship et al 345/167
5,764,164 *	6/1998	Cartabiano et al 341/22
5,956,018 *	9/1999	Pejic et al 345/157
6,052,070 *	4/2000	Kivela et al 341/122

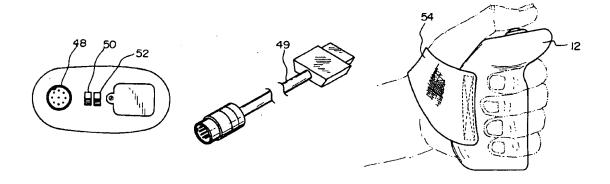
* cited by examiner

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(57) ABSTRACT

A hand held ergonomic computer controller is provided including a housing having a lower extent taking the form of a grip and an upper extent with a cross-sectional area greater than that of the lower extent. At least one button is mounted on the housing. Also included is either a trackball or a joystick mounted on the upper extent of the housing.

1 Claim, 4 Drawing Sheets



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